

Amendments To Claims

Claims 1-29 (cancelled).

30. (Currently Amended) A system for adapting threads support in a virtual machine to an underlying platform of the virtual machine, comprising:

threads interface layer (TIL) that provides a standard threads interface for a set of threads associated with an application program of the virtual machine such that the standard threads interface does not depend on the underlying platform;

native threads interface layer (NTIL) for adapting the ~~threads interface layer TIL~~ to the underlying platform such that a set of routines in the ~~threads interface layer TIL~~ use a set of routines in the ~~native threads interface layer NTIL~~ to support the threads.

31. (Currently Amended) The system of claim 30, wherein the ~~native threads interface layer NTIL~~ is adapted to an operating system of the underlying platform.

32. (Currently Amended) The system of claim 31, wherein the ~~native threads interface layer NTIL~~ is adapted to use a set of thread support routines provided by the operating system.

33. (Currently Amended) The system of claim 31, wherein the ~~native threads interface layer NTIL~~ is adapted to use a set of routines provided by the operating system that perform equivalent functions of functions in the native threads interface layer (NTIL).

34. (Currently Amended) The system of claim 30, wherein the ~~native threads interface layer NTIL~~ is adapted to a hardware architecture of the underlying platform.

35. (Previously Presented) The system of claim 30, wherein the standard threads interface is a Java threads class.

36. (Currently Amended) The system of claim 30, wherein the routines in the ~~threads-interface-layer~~ TIL maintain a set of context information for each thread in terms of the virtual machine.

37. (Currently Amended) The system of claim 30, wherein the routines in the ~~native-threads-interface-layer~~ NTIL maintain a set of context information for each thread in terms of the underlying platform.

38. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for suspending a particular thread.

39. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for resuming a particular thread.

40. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for waiting for completion of a particular thread.

41. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for yielding execution to another thread.

42. (Currently Amended) The system of claim 30, wherein the native threads support routines include a routine for stopping execution of a particular thread and for cleaning up a set of ~~strictures~~ structures associated with the particular thread.

43. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for setting a priority of a particular thread.

44. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for obtaining a priority of a particular thread.

45. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for obtaining an identifier of a currently executing thread.

46. (Previously Presented) The system of claim 30, wherein the native threads support routines include a routine for selecting a particular thread for execution.

47. (Currently Amended) A method for adapting threads support in a virtual machine to an underlying platform, comprising the steps of:

providing a threads interface layer (TIL) having a standard threads interface in the virtual machine for a set of threads associated with an application program that executes under the virtual machine such that the standard threads interface does not depend on the underlying platform;

providing a native threads interface layer (NTIL) for adapting the ~~threads interface layer~~ TIL to the underlying platform such that a set of routines in the ~~threads interface layer~~ TIL use a set of routines in the ~~native threads interface layer~~ NTIL to support the threads.

48. (Currently Amended) The method of claim 47, wherein the ~~step of providing an~~ a native threads interface layer NTIL includes the ~~step of~~ adapting the ~~native threads interface layer~~ NTIL to an operating system of the underlying platform.

49. (Currently Amended) The method of claim 48, wherein ~~the step of~~ adapting the ~~native threads interface layer~~ NTIL to an operating system includes ~~the step of~~ adapting the ~~native threads interface layer~~ NTIL to use a set of thread support routines provided by the operating system.

50. (Currently Amended) The method of claim 48, wherein ~~the step of~~ adapting the ~~native threads interface layer~~ NTIL to an operating system includes ~~the step of~~ adapting the ~~native threads interface layer~~ NTIL to use a set of routines provided by the operating system that perform equivalent functions of functions in the ~~native threads interface layer~~ NTIL.

51. (Currently Amended) The method of claim 47, wherein ~~the step of~~ providing ~~an a native threads interface layer~~ NTIL includes ~~the step of~~ adapting the ~~native threads interface layer~~ NTIL to a hardware architecture of the underlying platform.

52. (Currently Amended) The method of claim 47, wherein ~~the step of~~ providing ~~an a native threads interface layer~~ NTIL having a standard threads interface includes ~~the step of~~ providing a Java threads class.